Abstract of the Disclosure

The present invention provides a high frequency amplifier suitable for use in a wireless communication system which performs detection of an output level necessary for feedback control by a current detection system, wherein control sensitivity in an area low in transmit request level is lowered so that an output level can be controlled over the whole control range with satisfactory accuracy. There is provided a high frequency power amplification electric part constituting a wireless communication system, which performs detection of an output level necessary for feedback control of output power by a current detection system, compares the output level detected signal and an output level designation signal and generates a bias voltage for a high frequency power amplifier according to the difference therebetween to thereby control gain, wherein an nth root converter or a logarithm converter is provided between a current detector and a current-voltage converter.